

New Millennium Building Systems Versa-Dek 3.5 LS steel roof deck is secured to the structural supports and covered with an FM Approved fully or partially adhered roof covering or with a mechanically attached roof covering when the in-row fastener spacing is less than or equal to one-half of the deck span, per proprietary listings.

Versa-Dek 3.5 LS has an 8 in. (203 mm) rib module spacing and requires minimum 2 in. (38 mm) thick polyisocyanurate insulation board be installed with edges along the centerline of the top flange. When utilizing an FM Approved above-deck system with a mechanically fastened cover, select one with a cover fastener spacing greater than the 8 in. (203 mm) and reduce this fastener spacing to coincide with placement of the fastener into the deck top flanges (e.g., FM Approved 12 in. (305 mm) spacing is reduced to 8 in. (203 mm) spacing; FM Approved 18 in. (457 mm) spacing is reduced to 16 in. (406 mm) spacing).

Go to [www.roofnav.com](http://www.roofnav.com) to obtain up to date information.

The maximum allowable span is the lesser of:

- the span shown in the tables below,
- the maximum span for the selected proprietary fastener used to secure the deck or
- the maximum span shown in the specified RoofNav assembly

The wind uplift rating of the completed roof assembly cannot exceed the wind rating of the above deck components shown in the specified RoofNav assembly.

The decks are secured to structural supports using fasteners FM Approved for securing steel deck to structural supports. Steel deck side laps are secured using fasteners FM Approved for securing steel deck laps. Refer to RoofNav product listings for fastener details.

In lieu of mechanical fasteners, the decks are secured to supports with puddle welds as noted in Tables below. The spacing shown is the maximum spacing permitted and the weld diameter shown is the minimum visible weld diameter. Maximum four sheets of 22 ga. (0.0295 in. [0.75 mm]) and 20 ga. (0.0358 in. [0.91 mm]) thick decks can be welded and maximum three sheets of 18 ga. (0.0474 in. [1.2 mm]) and two sheets of 16 ga. (0.0598 in. [1.52 mm]) thick decks can be welded.

<b>Versa-Dek 3.5 LS</b>						
Secured with FM Approved fasteners or Secured with 0.75 in. (19 mm) diameter welds spaced 4 in. (102 mm) o.c.						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20 (0.0358 [0.91])	240	6096	240	6096	224	5690
18 (0.0474 [1.20])	280	7112	280	7112	263	6680
16 (0.0598 [1.52])	316	8026	316	8026	302	7671
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20 (0.0358 [0.91])	258	6553	228	5791	206	5232
18 (0.0474 [1.20])	316	8026	278	7061	251	6375
16 (0.0598 [1.52])	372	9449	329	8357	296	7518

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
20 (0.0358 [0.91])	283	7188	255	6477	231	5867
18 (0.0474 [1.20])	330	8382	310	7874	280	7112
16 (0.0598 [1.52])	372	9449	367	9322	331	8407

<b>Versa-Dek 3.5 LS</b>						
Secured with 0.75 in. (19 mm) diameter welds spaced 8 in. (203 mm) o.c.						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
20 (0.0358 [0.91])	240	6096	240	6096	224	5690
18 (0.0474 [1.20])	280	7112	280	7112	263	6680
16 (0.0598 [1.52])	316	8026	316	8026	302	7671

  

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
20 (0.0358 [0.91])	194	4928	151	3835	124	3150
18 (0.0474 [1.20])	263	6680	203	5156	166	4216
16 (0.0598 [1.52])	341	8661	261	6629	211	5359

  

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
20 (0.0358 [0.91])	242	6147	189	4801	155	3937
18 (0.0474 [1.20])	329	8357	254	6452	207	5258
16 (0.0598 [1.52])	372	9449	326	8280	264	6706



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<b>Versa-Dek 3.5 LS</b>						
Secured with 0.75 in. (19 mm) diameter welds spaced 6 in. (150 mm) o.c.						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20 (0.0358 [0.91])	240	6096	240	6096	224	5690
18 (0.0474 [1.20])	280	7112	280	7112	263	6680
16 (0.0598 [1.52])	316	8026	316	8026	302	7671
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20 (0.0358 [0.91])	258	6553	202	5131	165	4191
18 (0.0474 [1.20])	316	8026	271	6883	221	5613
16 (0.0598 [1.52])	372	9449	329	8357	282	7163
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20 (0.0358 [0.91])	283	7188	252	6401	207	5258
18 (0.0474 [1.20])	330	8382	310	7874	276	7010
16 (0.0598 [1.52])	372	9449	367	9322	331	8407